

KRISHNASAMY

College of
ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University
Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.
☎ (04142) 285 601 - 604 🌐 www.kcet.in ✉ info@kcet.in

DEPARTMENT OF CIVIL ENGINEERING

05.07.2023

CIRCULAR

Ref.: KCET/CIVIL/VAC/CIRCULAR/2022-23/02.

The following Value Added Course will be conducted during the academic year 2022-2023. The course will be conducted from 17.07.2023 to 21.07.2023. Students are instructed to register their names in the course allotted to them.

Note: Students are instructed to attend the program without fail.

S.No.	Course Code	Name of the Course	Year	No. of Period	Course Coordinator
1	CE-VAC2203	MATERIAL CALCULATION FOR RESIDENTIAL BUILDING	II	30	Er.V.Thirumurugan AP/CIVIL
2	CE-VAC2204	BUILDING DRAWINGS AND DETAILING	III	30	Er.C.Sureshkumar, AP/CIVIL

P. Rai

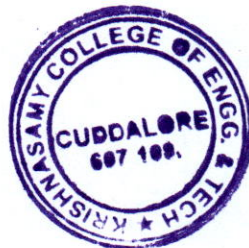
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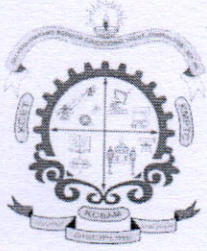
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Class Room

Class In charge

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SYLLABUS

Subject Code/ Subject Name: CE-VAC2203- MATERIAL CALCULATION FOR RESIDENTIAL BUILDING

Duration: 30 Hours

OBJECTIVES:

To introduce students to the

- Classify Basic concepts, techniques and applications of Estimation and costing.
- Understand how to prepare a detailed estimate for a residential building and calculate the quantities for various items of work
- Analyze the rates for various items of work and to prepare a abstract estimate

Module -I Introduction

6

General items of work in Building – Standard Units –Principles of working out quantities for detailed and abstract estimates –Methods of Estimates of Buildings – Detailed estimates of buildings.

Module-II Standard specifications

6

Standard specifications for different items of building construction. Rate Analysis – Working out data for various items of work, over head and contingent charges. Reinforcement bar bending schedule

Module –III Valuation Of Buildings

6

Purpose and Principles of valuation –Technical terms – Methods of valuation.Estimation of quantities for road work items.

Module -IV Planning Resource Management For Civil Engineering Project

6

Objectives of planning – Its advantage to client and engineer – limitations – stages of planning by owner & contractor.

Module -V Scheduling Resource Management For Civil Engineering Project

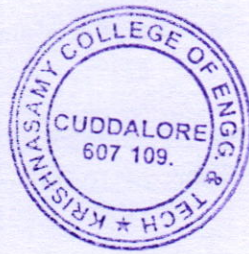
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Scheduling – definition – its preparation – uses and advantages – classification – methods of scheduling – bar chart – Job layout – Gantt chart- work breakdown chart (WBC)

TOTAL: 30 PERIODS

COURSE OUTCOMES:

- Apply basic concepts of estimation in evaluating construction cost.
- Apply standard specifications to carry out rate analysis and prepare bar bending schedule for different RC elements.
- Prepare valuation of building using principles of valuation and estimate the quantities for Road work items.
- Explain construction organisation, construction planning and scheduling of projects.



P. Peri

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